Notice of Allowability	Application No.	Applicant(s)
	09/923,978	PRATT, STEPHEN J.
	Examiner	Art Unit
	Md S Elahee	2645
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to <u>07/12/2004</u> .		
2. The allowed claim(s) is/are <u>1-30</u> .		
3. The drawings filed on 07 August 2001 are accepted by the Examiner.		
<ul> <li>4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) ☐ All b) ☐ Some* c) ☐ None of the:</li> <li>1. ☐ Certified copies of the priority documents have been received.</li> <li>2. ☐ Certified copies of the priority documents have been received in Application No</li> </ul>		
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
6. CORRECTED DRAWINGS ( as "replacement sheets") must	t be submitted.	
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached		
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s)		
1. Notice of References Cited (PTO-892)	5.  Notice of Informal Pa	tent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6.	PTO-413),
<ol> <li>Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date</li> </ol>	3), 7. ☐ Examiner's Amendm	
4. Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's Statemer	nt of Reasons for Allowance
of Biological Material	9.  Other	
		-

## DETAILED ACTION

## Reasons for Allowance

1. Claims 1-30 are allowed.

The following is a statement of reasons for the indication of allowable subject matter:

Regarding claims 1, 19, 24 and 30, the prior art found at this time. Higuchi fail to teach:

1) a back-end transmitter mixer of a multiple band transceiver utilizing a reduced

number of frequency sources, electrically coupled to a first frequency source, operative to

receive a first oscillating signal generated from the source and an unmodulated transmit signal in

order to generate an Intermediate Frequency (IF) transmit signal and

2) a back-end receiver mixer of the transceiver, electrically coupled to the first frequency

source, operative to receive the first oscillating signal and an IF receive signal in order to

generate an unmodulated receive signal.

Reference, Higuchi teaches a back-end transmitter mixer of a multiple band transceiver,

electrically coupled to a first frequency source, operative to receive a first oscillating signal

generated from the source and a modulated transmit signal in order to generate an Intermediate

Frequency (IF) transmit signal and a back-end receiver mixer of the transceiver, electrically

coupled to a second frequency source, operative to receive a second oscillating signal and an IF

receive signal in order to generate a modulated receive signal. However, these back-end

transmitter and receiver mixers fail to receive and generate unmodulated signal respectively.

There is no motivation is found to modify the mixers either to receive an unmodulated transmit

signal or generate an unmodulated receive signal.

Application/Control Number: 09/923,978

Art Unit: 2645

Regarding claim 14 is allowed for the same reasons as discussed above with respect to

Page 3

claim 1.

Any comments considered necessary by applicant must be submitted no later then the

payment the issue fee and, to avoid processing delays, should preferably accompany the issue

fee. Such submissions should clearly labeled "Comments on Statement of Reasons for

Allowance."

Conclusion

2. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Md S Elahee whose telephone number is (703) 305-4822. The

examiner can normally be reached on Mon to Fri from 8:30am to 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Fan Tsang can be reached on (703) 305-4895. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MD SHAFIUL ALAM ELAHEE September 22, 2004

FAN TSANG SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2600

July Santa